

**SPREAD SPECTRUM BURST SIGNAL
RECEIVER AND RELATED METHODS**

Abstract of the Disclosure

A receiver for a spread spectrum burst signal having a predetermined period includes a time invariant matched filter for comparing an input signal to at least one reference signal based upon a pseudo-noise (PN) code and providing a stream of data values and a threshold comparator for comparing each of the stream of data values to a threshold to determine an acquisition time for the spread spectrum burst signal.

5 The receiver may further include a contrast filter connected between the time invariant matched filter and the threshold comparator for varying the threshold based upon an interference level to reduce instances of false acquisition detections. Additionally, the

10 receiver may include a window sampler for selectively sampling the data values based upon the acquisition time and the predetermined period.

15